



MOTORSPORT
CM3

DIAMOND
AUDIO TECHNOLOGY

FEATURES

Massive Double Stacked Magnet

- High excursion, maximum efficiency

Cmax™ Optimised Spider and Edge

- allows long throw and controlled braking

Integrated Rubber Trim Gasket

- seals driver for front or rear mounting

Symmetrically Balanced Suspension

- controls high excursion yaw.

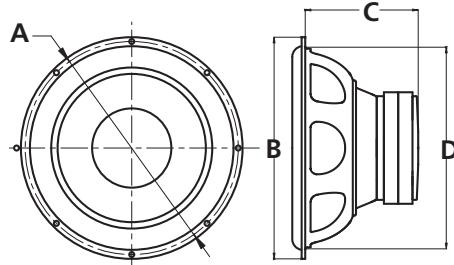
Radial Vented Basket

- uses venturi effect to maximise cooling efficiency

3 Year Warranty

- if sold and installed by an Authorized Diamond Dealer

DIMENSIONS AND VOLUME



IMPERIAL DIMENSIONS

DIMENSION	CM3 08	CM3 10	CM3 12	CM3 15
A (Bolt Circle dia.)	7.755"	9.645"	11.732"	14.566"
B (Outside dia.)	8.503"	10.314"	12.401"	15.354"
C (Height)	4.133"	5.629"	6.220"	7.401"
D (Thru Hole dia.)	7.401"	9.173"	11.102"	13.937"
Displacement (Ft³)	0.0325	0.0596	0.0784	0.1281

METRIC DIMENSIONS

DIMENSION	CM3 08	CM3 10	CM3 12	CM3 15
A (Bolt Circle dia.)	197mm	245mm	298mm	370mm
B (Outside dia.)	216mm	262mm	315mm	390mm
C (Height)	105mm	143mm	158mm	188mm
D (Thru Hole dia.)	188mm	233mm	282mm	354mm
Displacement (L)	0.92 L	1.69 L	2.22 L	3.63 L

INSTALLATION

Thiele/Small data and suggested enclosure volumes for Diamond CM3 Subwoofers are shown below. The enclosures specified here are offered as a suggestion only. Since enclosure design is as important to sound quality as the speaker itself, it is recommended that your Authorized Diamond Retailer assist you in designing and building an enclosure to suit your vehicle. For more information on selecting the best subwoofer enclosure, visit www.diamondaudio.com. Diamond's CM3 Series subwoofers are primarily designed for use with small sealed enclosures. Good results have been achieved in vented and bandpass enclosures also.

HIGH PASS ("SUBSONIC") FILTERS MUST BE USED WITH NON-SEALED APPLICATIONS TO PREVENT OVER-EXCURSION AT INFRASONIC FREQUENCIES.

Model	CM308D2	CM308D4	CM310D2	CM310D4	CM312D2	CM312D4	CM315D2	CM315D4
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THIELE/SMALL PARAMETERS

SPL	83	83	84	84	86	86	88	88
Qms	6	6	6.9	5.9	6.2	6.4	8.0	8.00
Qes	0.647	0.63	0.605	0.699	0.72	0.79	0.69	0.75
Qts	0.584	0.57	0.557	0.625	0.64	0.70	0.64	0.68
Fs	46	49.03	40.39	41.8	37.4	40.0	30	30.0
Vas	7.5	7.4	14.0	13.3	28.8	26.8	86.58	82.6
Cms	0.133	0.132	0.091	0.086	0.085	0.0792	0.0977	0.0938
Mms	80	80	170	168	213	200	288	300
Sd	0.0200	0.0200	0.0330	0.0330	0.0490	0.0490	0.0790	0.079
BL	11.5	16.6	15.1	20.1	15.2	20.3	16.1	22.0
Re	3.3	7.04	3.2	6.4	3.3	6.4	3.3	6.4
Xmax (mm)	7.75 (.305")	8.15 (.321")	11 (.433")	11.9 (.468")	11 (.433")	11.9 (.468")	11 (.433")	12 (.472")
Znom(Series)	4	8	4	8	4	8	4	8

SEALED ENCLOSURE

Vb (Net vol ft³)	0.27~0.68	0.27~0.68	0.50~1.0	0.50~1.0	0.6~1.2	0.6~1.2	1.2~2.0	1.2~2.0
F3 (Hz)	65~58	65~58	58~52	58~52	55~46	55~46	47~40	47~40
Pe (Watts)	500~250	500~250	500~300	500~300	500~300	500~300	500~300	500~300
Qtc (@ max power)	0.9~1.2	0.9~1.2	0.9~1.2	0.9~1.2	0.9~1.2	0.9~1.2	1.0~1.2	1.0~1.2

VENTED ENCLOSURE

Vb (Net vol ft³)	0.4	0.4	0.75	0.75	1.5	1.5	4	4
F3 (Hz)	46	46	42	42	43	43	42	42
Fb (Tuning freq.)	49	49	41	41	38	38	38	38
Pe (Watts)	400	400	400	400	400	400	400	400
Ports	2	2	1	1	1	1	1	1
Port I.D.	2"	2"	3"	3"	4"	4"	6"	6"
Port Length	15"	15"	13"	13"	13"	13"	9"	9"